

## ABSTRACT OF THE DISCLOSURE

A pneumatic tire for vehicle wheels includes a radial carcass, a tread band, sidewalls and beads, and a belt structure. The tread band is provided with grooves on its surface for coming into contact with the ground and situated on a radial outer surface of the carcass. The sidewalls and beads anchor the tire on a wheel rim. The belt structure is disposed between the tread band and the carcass. Additionally, a fiber-reinforced elastomeric intermediate layer is placed between the belt structure and the tread band. Methods for manufacturing the pneumatic tire are also disclosed.

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